

**A SMOKE TEST IS CONDUCTED** in the Development Division High Purity Laboratory. The smoke shows the vertical laminar air flow pattern from ceiling to floor. Y-12 clean rooms was the subject of recent papers given by two Y-12 engineers.

## Engineers Little And Choat Describe Y-12 Clean Rooms In Technical Papers

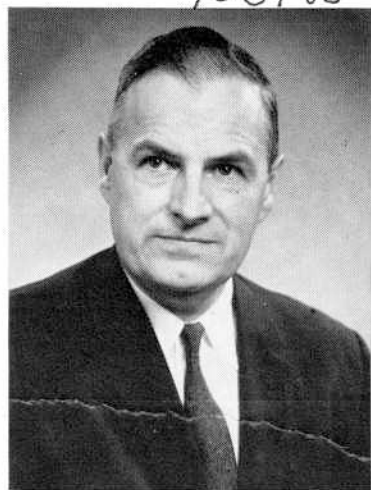
Y-12's ultra clean room is in the news again. The subject of a recent article in the Bulletin, the room was used in bacterial contamination tests conducted by staff members from the Georgia Institute of Technology (Georgia Tech).

Two Y-12 engineers recently presented a technical program to the East Tennessee Chapter of the American Society of Heating, Refrigeration and Air Conditioning Engineers. J. C. Little and E. E. Choat, Mechanical Engineering Department, discussed a paper entitled "Significant Parameters of Clean Room Design." The paper was previously given in May, 1965, at the Annual Meeting of the American Association for Contamination Control, Miami, Florida.

Almost 40 slides were presented arranged to show five different types of Y-12 clean rooms. The clean room design and construction problems, along with startup and performance test data were also discussed. The results of noise, air flow, dust count, radiological and bacteriological investigations and construction costs of the various clean room concepts were also subjects in the discussion.

One of the startup tests is shown in the accompanying photograph. This is a smoke test in the Development Division's High Purity Laboratory showing the vertical laminar air flow pattern from ceiling to floor. In the background is a smoke detector and a particle counter used to determine room cleanup characteristics and atmospheric dust counts.

This particular laboratory equipped with double absolute filtration (final filters 99.99+ percent efficient) is the cleanest room yet reported in this country. In 400 hours of testing the dust counters detected one 0.5 micron particle (20 millionth of an inch) in each six cubic feet of air sampled and one 0.3 micron particle (size of cigaret smoke) in each three cubic feet of air sampled.



J. C. Little



E. E. Choat

## Maintenance Division Ups United Fund Gain

**Only 507 Cards Remain Outstanding**

Another 10 Y-12 departments join the select group, as they surpass their fair share of giving in Y-12's current United Fund drive. They were omitted from last week's role of honor, as final reports show these sections going more than their 'second mile.'

The departments of honor are:

- Laboratory Development Department
- Mechanical Development Department
- Engineering Division (Department)
- Electrical Engineering Instrument Engineering A-2, Etc., Shops—9212
- Mail Department
- 9215 Rolling
- SS Control Department
- Material Control

Through October 29, only one more division reports more money in . . . as Maintenance comes through with \$1,235.38 more to boost their United Fund to \$14,000.00.

Continued on Page 4

## SAFETY SCOREBOARD

The Y-12 Plant Has Operated  
**26 Days Or  
672,000 Man-Hours**  
(Unofficial Estimate)

**Through October 31  
Without A Disabling  
Injury**

For Daily Report  
On Accident-Free Hours  
Phone 3-7755

## Union Carbide 3rd Quarter Sales And Earnings Break New Records

**Continuous Succession Of Individual Periods Are Broken Going Back To Early Last Year**

Union Carbide's earnings in the third quarter exceeded those of the 1964 period by 23 percent and sales were nine percent higher, according to a statement last week by Birny Mason Jr., president. Both sales and earnings set new highs for any quarter, continuing a succession of individual quarterly records going back to 1964.

Earnings for the three-month period were \$57.9 million, or 96 cents a share, compared with \$47.1 million, or 78 cents a share, in 1964. Sales reached a record \$524.9 million, compared with last year's third-quarter sales of \$483.3 million.

Records were also set for the first nine months of the year, with earnings rising 26 percent to \$167 million, or \$2.77 a share. This compared with \$132.9 million, or \$2.20 a share, for the comparable period of 1964. Nine-months sales amounted to \$1,527 million, 13 percent ahead of last year's sales of \$1,355.8 million.

Mason pointed out that net income for 1965 continues to be favorably affected by the success of Union Carbide's efforts to improve operating efficiencies in every area, as well as by increased volume with relative overall price stability for the corporation's products.

**Product Group Sales Show Seasonal Jump For Anti-Freeze**

Commenting on the current trend of Union Carbide's sales by product group, President Mason explained that the third quarter reflected the seasonal growth of the anti-freeze business, a slight reduction in plastics exports, and lower metals sales following the unusually high levels achieved in the second quarter.

Although sales are currently being limited by production capacity for some product lines, Union Carbide is beginning to gain additional sales from the new capacity coming on-stream under its extensive capital expansion program. This program calls for expenditures totalling over \$500 million for the 1964-1965 period, with expenditures in 1966 likely to exceed \$300 million.

**New Units Contribute To Rise In Sales And Production**

Among new chemicals units contributing to sales are acetic acid facilities in Brownsville, Texas, and new detergent intermediate facilities in Texas and West Virginia. Another major new facility is a plasticizer alcohol unit at the Ponce, Puerto Rico, plant. Mason reported that construction of the corporation's major new chemicals complex at Taft, Louisiana, is under way. He said, however, that while operations at this plant will begin during the first quarter of 1966, large-scale production will not be available until the second half of next year.

Union Carbide's plastics plants are running at practical capacity levels. Sales should benefit soon, Mason continued, from a high-density polyethylene plant expansion at Seadrift, Texas; an ABS (acrylonitrile-butadiene-styrene) polymer plant at Bound Brook, New Jersey; and a commercial unit to produce a new high performance plastic—polysulfone—at Marietta, Ohio. Significant expansions of facilities for producing low-density polyethylene and vinyl resins are scheduled for 1966.

In the industrial gas field, Union Carbide recently placed in operation the world's largest oxygen plant at Gary, Indiana, and the corporation is adding more capacity for gases in Florida, Texas, California, and New Jersey. It completed during the third quarter a new plant in Mobile, Alabama, to produce Molecular Sieves, which are unique adsorbent materials used in various petroleum and chemical process operations.

**Overseas Growth Continues in Over 50 Companies**

Union Carbide either owns or is affiliated with over 50 companies operating overseas. These include manufacturing, mining, and selling companies. These affiliated companies have chemicals and plastics plants in Australia, Belgium, Brazil, India, Italy, Japan, Mexico, Sweden and the United Kingdom. Other products produced by these companies include dry batteries, carbon and graphite products, alloys and ores, industrial gases, and food products.

Sales and earnings of these overseas companies (some of which are wholly owned and others 50 percent or more owned by Union Carbide) continue to exceed those of a year ago by substantial margins. Their estimated 1965 sales are about \$400 million. This does not include the value of Union Carbide products exported from the United States for resale by these companies.

In 1965, Union Carbide's affiliates overseas expect to spend about \$33 million on new building projects. With respect to the U.S. balance of payments problem, it is significant that these projects will be financed mainly from foreign sources. In the aggregate, Union Carbide's favorable balance of payments position, which has existed for many years, amounted to \$135 million in 1964 and is expected to be even higher in 1965.

Continued on Page 4



# The Bulletin

Published Weekly For The  
Y-12 Employees Of  
UNION CARBIDE  
CORPORATION



NUCLEAR DIVISION

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James D. Black

## Modern Metrology Topic At SNT Meet

The Oak Ridge Section of the Nondestructive Testing Society will meet next Tuesday, November 9. The meeting will be held at the Holiday Inn, with dinner beginning at 7 p.m. Modern metrology is the theme of the November meeting.

Special guest will be James D. Black, Sheffield Corporation, Dayton, Ohio. He will discuss the various ways of measuring complex parts and ways and means of making these measurements using pneumatic, electronic and numerical controls. Methods of measuring parts easily damaged using non-contact gauging such as air gauges and X-ray gauges will be discussed.

Black will also discuss some of the latest and newest methods of gauging.

The dinner, which needs no reservation will be \$2.25. Black will speak at 8 p.m. There is a break between dinner and the technical session. Guests and members may attend both the dinner and the speech or may come at 8.

All guests and interested parties are welcome.

## Union Carbide Board Declares 50¢ Dividend

The board of directors of Union Carbide Corporation has today declared a quarterly dividend of fifty cents (50¢) per share on the outstanding capital stock of the corporation, payable December 1, 1965, to stockholders of record November 5, 1965. The last quarterly dividend was 50¢ per share paid September 1.

Payment of this quarterly dividend on December 1 will make a total of \$2.00 per share paid in 1965, on the outstanding shares of the corporation adjusted to reflect the two-for-one stock split in May, 1965. In 1964, the total amount paid was \$1.80 per share, also adjusted to reflect the stock split.

## Game Is Called Due To Darkness

'Love and memory last and will so endure till the game is called because of darkness.' Thus, Thursday, October 21, ended the game for Mr. Howard W. (Kayo) Montgomery, well-known Y-12er and athlete. He had recently undergone heart surgery in Knoxville. The popular athlete was in Research Services.



Montgomery

Mr. Montgomery came to Y-12 in 1952 after hiring in August 27, 1951 at the Oak Ridge Gaseous Diffusion Plant. He had been with Roane-Anderson Company, the Aluminum Company of America, and had played professional baseball in Elizabethton, Gloversville, New York; and Newport. In his early days in the plant, he was active both in baseball and softball leagues.

Surviving are a daughter, Patti, his parents, Mr. and Mrs. Walter Montgomery, a brother Jack P. Montgomery, all of Knoxville. Funeral services were conducted Sunday, October 24 at the Rose Chapel, Knoxville. The Reverends Herman Lovelace and D. L. Hammer Jr. officiated. Interment followed in the Woodlawn Cemetery, with the masonic order in charge of services.

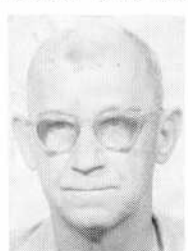
Mr. Montgomery was a member of the Lincoln Park Methodist Church and a veteran of the U. S. Navy.

Deepest sympathy is extended his family. Even though the game was called because of darkness, it was a good game at that.

## Harry Burns Rites Held In Harriman

The death of Mr. Harry E. Burns, Beta Two Forming, is sadly reported Sunday, October 24. The Burns home is at 904 Crescent Street, Harriman.

Mr. Burns came to Y-12 for the second time March 20, 1951. He worked here previously from 1943 until 1947. He worked also at the Harriman Hosiery Mills, Fairfield Air Depot, Dayton, Ohio; and the Life and Casualty Insurance Company.



H. E. Burns

Surviving are his wife Mrs. Margaret Taylor Burns; and son, Harry E. Burns Jr., Harriman; a daughter, Mrs. Joseph C. Golden, Knoxville; brothers, Charles and Burton Burns, of Lenoir City and Atlanta; five sisters, Mrs. Helen Axley, Maryville; Mrs. Georgia Wilkerson, Knoxville; Mrs. Alice Purkey, Lenoir City; Mrs. Grace Maloney, Knoxville; and Mrs. Louise Ward, St. Louis, Missouri. A grandchild also survives.

Funeral services were held Tuesday, October 26, at the Trenton Street Baptist Church, where Mr. Burns was an active member. The Reverend Branson C. Wiggins officiated at the rites. Burial followed in the Harriman Cemetery.

Sincere sympathy is extended the Burns family by fellow workers.

## AS CHEAPLY AS ONE

Nowadays two can certainly live as cheaply as one . . . only it takes both to earn enough to do it.



**NEW BOSS OF THE YEAR** is Clark E. Center, above receiving his certificate and statuette. From left are Mabel Tyer, who is serving as president of the local chapter of the National Secretaries Association, Center, Mrs. Center, and John H. Frye Jr., last year's honoree.

## Local Secretaries Name Vice President Center 'Boss of the Year' In Deane Hill Annual Event

Clark E. Center is the new "Boss of the Year." He was so named by the Oak Ridge Chapter of the National Secretaries Association at the 12th Annual Bosses' Night Banquet at Deane Hill Country Club, October 23.

Center, vice president of the Nuclear Division of Union Carbide Corporation, is a native of Ohio, and received his BS degree in Mechanical Engineering from the University of Michigan. In 1962, he received the University of Michigan's "Outstanding Achievement Award" given to distinguished alumni. Since 1943, he has occupied positions of leadership and responsibility in the atomic energy program as a principal representative of Union Carbide in its activities carried out under contract with the Atomic Energy Commission at Oak Ridge and Paducah. Last year, Center received the AEC's citation for outstanding service to the nation's atomic energy program.

Chairman of the committee for selection of this NSA award, Bertie Byrum, stated "Mr. Center is one of the best qualified bosses who could be selected for this award. He not only qualifies for the Boss position, but he has always promoted the educational and professional standards of NSA." Center's secretary, Marigrace Kirtowsky, CPS, is a past president of the Oak Ridge Chapter.

Outgoing Boss of the Year John H. Frye Jr., Oak Ridge National Laboratory, formally presented the award, a Boss of the Year statuette to Center. Mrs. Center was presented a bouquet of red roses.

Mabel Tyer, secretary to the Industrial Relations superintendent in Y-12, is currently serving as president of the local chapter of the secretaries group.

## WITNESS TO FOLLY

"We often say how impressive power is. But I do not find it impressive at all. The guns and bombs, the rockets and the warships, all are symbols of human failure. They are necessary symbols. They protect what we cherish. But they are witness to human folly."—Lyndon B. Johnson.



**FAMILIAR Y-12 FACES** seen at Bosses' Night festivities recently are R. F. Hibbs, Y-12 Plant Superintendent, Mrs. H. G. P. Snyder, wife of Y-12's Industrial Relations Superintendent, and Mr. and Mrs. Marvin Schwenn. Schwenn is Superintendent of the Fabrication Division.



Ride wanted from West Hills section, Knoxville, to Central Portal, straight day. June Zachary, plant phone 3-5463, home phone Knoxville 588-0966.

## 'Man In Cocked Hat' Is Second AAUW Film

The British comedy, "Man in a Cocked Hat," is the second movie in the seventh AAUW annual Foreign Film Series. It will be shown twice Sunday, November 7, at 7 and 9 p.m. at Jefferson Junior High School.

A laugh-packed spoof of lame-brained diplomacy, the film stars famed comedians Peter Sellers and Terry-Thomas. On the same program is "Moonbird," an Academy Award-winning cartoon short.

Single admissions at 75 cents each will be sold at the door. Season tickets, saving 20 percent on all the films remaining, are still available.

## Len Whitten Is ASTME Speaker

The American Society of Tool and Manufacturing Engineers, Knoxville-Oak Ridge Chapter, will meet tomorrow, Thursday, November 4. The meeting is set at Melton Hill Country Club, Clinton, with dinner at 7 p.m.

The featured speaker is Len Whitten, Y-12's Dimensional Inspection. Whitten will deliver the second part of a two part series on Industrial Interferometry. He will deal with the practical applications of interferometry in the production and quality control as applied to precision fabrication and inspection. Slides and a film will accompany the address to demonstrate some of the applications.

The ASTME meeting begins with dinner, and the technical session starts at 8 p.m. All members are urged to attend and bring as many guests as desired.

## OLD GAME

Bowling was introduced in the United States in 1611 when the English settlers of the first permanent colony bowled on the streets of Jamestown, Virginia.





**THE BETTER HALVES**, moving up in Mixed Bowling circles, include, from left Jeanne and Ed Cothron . . . and June and Jerry Davis. Currently, the Halves enjoy a tie in third place in league standings.

## Blue Angels, Alley Cats Show Venom In Mixed Bowlers Eight-Team Contest

Two four - point wins were gleaned as Mixed Bowlers got down to business last week. The Blue Angels sent the Mustangs to the corral, and the Alley Cats scratched their way past the Twisters.

League-leading Goofers managed to capture three points from the Subs and the Chumps and Better Halves shared two each.

Lee Cabe, Subs, took singles honors for females, rolling a 186 scratch game, and a 237 handicap single. Verna Peckman, Blue Angels, sailed through series honors, posting a 460 scratch, 613

handicap total. Ted Higgins, Subs, took all individual male honors, rolling singles of 220, 259 . . . series of 550, 667.

The Subs took high singles, scratch of 697, handicap of 826. Their scratch series of 1801 was high also. The Blue Angels took handicap series highs with a total of 2338.

League standings follow:

Team	W	L
Goofers	20	8
Blue Angels	17	11
Better Halves	15	13
Alley Cats	15	13
Subs	13	15
Chumps	12	16
Mustangs	11	17
Twisters	9	19

## AEC Employees Adjust To Winter Work Hours

Atomic Energy Commission employees began new working hours Monday, November 1. They are now on duty from 8:15 a.m. until 5 p.m. The change was consistent with the expiration of Daylight Saving Time in Washington, D.C., headquarters for the AEC. During the period when DST is observed in Washington, Oak Ridge Operations personnel worked from 7:45 a.m. until 4:30 p.m. The change is made yearly to make the Oak Ridge working schedule more consistent with AEC headquarters' schedule.

## Demise Of Vaudeville Did Not Kill Show Biz

Vaudeville may be dead . . . but it isn't buried. In 1920, the hey-day of live theatrical houses, there were about 40,000 entertainers in the United States. But today there are about 90,000 performers at work, plus several millions of people who make, operate and repair film, radio, and television equipment. Show business may have killed vaudeville, but it created more jobs in doing so.

## Let Doctors Decide If You Need Glasses

Have your eyes examined at least every two years, doctors recommend. Adults over 40 and children 6 to 16 should have their eyes checked every year. Although eyes do not "wear out" with use, the ability to see clear-

## Rollmasters Tie For C Lane Top

Two teams are now roosting atop the C Bowling League . . . thanks to downright defeats and the split of points. The Strikers moved up within striking distance of top notch by downing the Big Five for the full count. The Shud-A-Beens shared two points with the Rollmasters. Another four point win was taken as the Badgers bettered the Rodders. Three points went to the Invalids over the Sunflowers, and the Fireballs over the Parbustars. The HiLifers and Rounders also shared two.

J. E. Morgan, Rounders, rolled a 220 scratch single . . . J. T. Galups and A. E. Smith, Badgers, pushed a 251 handicap single a piece . . . and George Reece, HiLifers, had high series of the night, posting 551 scratch, 653 handicap.

The Rounders had high scratch counting . . . singles of 904, series of 2495. The HiLifers handicapped high with singles of 1048, series of 2954.

League standings follow:

Team	W	L
Big Five	20	8
Rollmasters	20	8
Strikers	19	9
Shud-A-Beens	15	13
Rounders	14	14
Invalids	14	14
HiLifers	13	15
Rodders	12	16
Parbustars	11	17
Fireballs	11	17
Badgers	10	18
Sunflowers	9	19

ly and comfortably does change throughout life. Let an eye doctor determine whether you need glasses or not.

## Reagents Share Top Bush Berth

The Reagents moved up to tie with the Beavers for first holdings in Bush Bowling circles last week. The Reagents clobbered the Untouchables for the full count; while the FLUBS outfoxed the Beavers for the same count. A three point win went to the Outcasts over the Dry Hides. Only two points separate the league from top to bottom!

Harold Perdue, Reagents, crested with a 212 scratch game. Bill Cofer, Outcasts, rolled a 267 handicap single. Perdue returned to take series honors, with a 612 scratch, 678 handicap total.

The Reagents in their routing took all team honors . . . singles of 892, 1064 and series of 2435 and 2955.

League standings follow:

Team	W	L
Reagents	9	7
Beavers	9	7
Dry Hides	8	8
FLUBS	8	8
Outcasts	7	9
Untouchables	7	9

## Riflemen Slip Again In League

Y-12 fell further behind in the 22 Calibre Rifle League last week, as the riflemen took match number seven. Leading the Y-12 dead-eyes in scratch firing was Jack Huff, with a 292. B. L. Powers followed with a 289, and Art Hensley came through with a 285.

Huff's 292.626 handicap score was tops also. Powers had a 290.384 and Hensley gleaned a 290.156 from the handicap scoreboard.

In the team firing all teams did better than Y-12's. Scratch firing was ORNL: 1442, Independents: 1443 and Y-12: 1432. Handicap totals were thusly: ORNL: 1457.176, Independents: 1455.477; and Y-12: 1450.924.

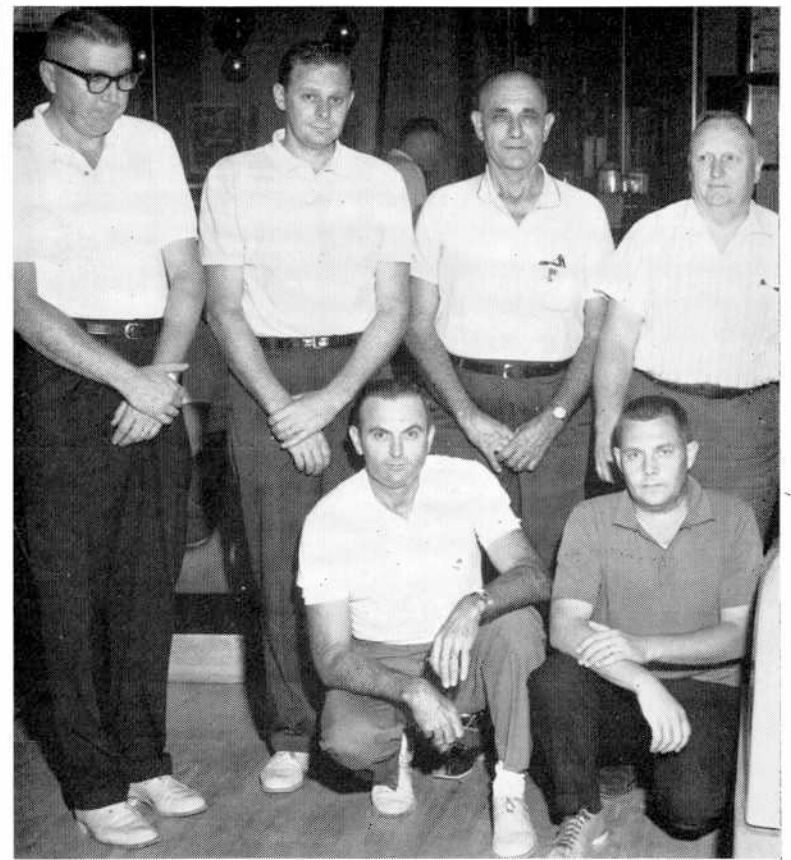
League standings follow:

Team	Points
ORNL	35
Independents	20
Y-12	17

High men for the other teams included Frank Barnes, ORNL, shooting a 294 scratch score . . . and D. A. Clark, Independents racking up a 293.



**MAYOR** Loyall Vandergriff of Lake City, also of Y-12's Cashier and Travel Office, is mighty proud of the LC Lakers, winners of the Northeastern Conference Championship . . . with a conference record of six wins and no losses. He is equally as proud of Niece Mary Luallen, above, a major-ette at Lake City.



**THE SWINGSTERS ARE CURRENTLY** enjoying top standings in Y-12's Classic Bowling League. Kneeling, from left are J. E. Morgan and D. R. Kessell. Standing are C. R. Lively, Otis Rackley, J. B. Strickland and Captain George Cantrell.

## Swingsters Swat Wolves To Keep Strong Lead In Y-12 Classic Bowling Struggle

The Swingsters swung more broadly into top standings in the Classic Bowling League last week by lambasting the Wolves for the full count. The only other big win went to the All Stars over the Has Beens. The Markers marked past the Rippers by three and one-half points. Three points went to the Bumpers beyond the Smelters,

the Tigers towering over the Wasps, the Splinters sailing past the Cubs and the Rebels 'round the Eightballs. The Screwballs and Playboys shared two each.

John Austin, Cubs, swept individual honors. His singles were 251 scratch, 281 handicap . . . and his series were 609 and 699.

The Swingsters, not content with first holdings, took scratch singles honors posting a 927. The Cubs rolled high handicap singles of 1047. The Swingsters returned to the board in series with 2639 scratch, 2993 handicap.

League standings follow:

Team	W	L
Swingsters	28	8
Bumpers	22	14
Wolves	21	15
Wasps	21	15
Markers	20½	15½
All Stars	18	18
Rippers	17½	18½
Has Beens	17	19
Cubs	17	19
Screwballs	17	19
Playboys	17	19
Tigers	17	19
Splinters	15	21
Eightballs	14	22
Rebels	14	22
Smelters	12	24

## Recreation



**Saturday, November 6**

**FUN NIGHT:** E, F, G, H and J Shifts, 7:30 p.m., Green Room, Ridge Recreation Hall.

**Monday, November 8**

**TENNIS LEAGUE:** By arrangement as per schedule.

**BOWLING:** C League, 5:45 p.m., Bush League, 8 p.m., Ark Lanes.

**TABLE TENNIS:** 7:30, Wild Cats Den, Oak Ridge.

**PISTOL LEAGUE:** 7:30 p.m., Anderson County Gun Club, Clinton.

**Tuesday, November 9**

**PHYSICAL FITNESS:** 7:30 p.m., Oak Ridge High School Gymnasium.

**Wednesday, November 10**

**BOWLING:** Mixed League, 8 p.m., Ark Lanes.

**Thursday, November 11**

**BOWLING:** Classic League, 5:45 Ark Lanes.

## 'Don Juan In Hell' Is Studio Production

A concert reading of George Bernard Shaw's "Don Juan in Hell" from "Man and Superman" will be presented at the Playhouse, November 6 and 7 . . . that's this week-end Saturday and Sunday. Curtain times for performances are 8:20 on Saturday, 8 p.m. on Sunday. The performance is free to Playhouse members and the charge to non-members is 50 cents.

"Don Juan" will be the first of at least two, probably three, Studio Theatre production this season. Further information may be obtained from the Oak Ridge Ridge Playhouse, telephone Oak Ridge 483-1224.

## Welding Society Plans Field Trip

The Northeast Tennessee Section of the American Welding Society is sponsoring a field trip Saturday, November 13, to the Combustion Engineering Company, Chattanooga.

Transportation will be provided by Continental Trailways. Cost will be \$4 per person. The bus will leave Knoxville at 5:30 a.m. and Oak Ridge at 6:10 a.m. The tour will begin at 9:30 a.m. Teenagers attended by parents will be welcome.

Reservations must be made by today, November 3, and payment should accompany the reservations. D. G. Scott, extension 3-7482, and Vern Gritzner, 3-5439 are handling reservations for Y-12ers.

Visitors must be citizens of the United States.



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Accounting and Budget*	\$ 700	\$ 706.96	101
Assembly	3,697		
Development*	5,224	5,235.04	100
Engineering	5,004	4,034.48	81
Fabrication	19,109	5,994.50	31
Industrial Relations	1,326	1,035.34	78
Maintenance	21,677	14,446.17	67
Metal Preparation	9,236	4,111.76	45
Product Engineering*	2,902	3,037.04	105
Superintendents*	2,655	2,989.08	113
Shift Superintendents	4,460	2,639.00	59
Product Certification	6,475	4,497.35	69
Technical	3,287	2,956.53	90
Materials and Services	3,248	1,689.48	52
<b>TOTAL PLANT</b>	<b>\$89,000</b>	<b>\$62,123.08</b>	<b>69.8</b>

## United Fund

Continued from Page 1  
446.17 . . . or 67 percent of their fair share goal.

### 507 Cards Remain

Only 507 cards remain outstanding in the plant . . . and chairman E. A. Pluhar hoped to wind up the remaining reports early this week. The campaign will not be extended. Although Y-12 is shy of its intended \$89,000 goal, giving has been increased in all directions. Per capita giving is way up . . . and total gifts now to the five counties involved stand at \$62,958.46 . . . or 70.1 percent of the intended goal. This is almost one and one-half times as much as was given last year. (It must be remembered that Y-12's population has decreased by some 1,000 in the past year, also!)

To the 3,875 that have contributed thus far, heartiest congratulations! You have proved once again that Y-12 citizens believe in being citizens also in their respective communities and bearing the 'fair share' of efforts on behalf of the community's needs.

### Drive A Success

With approximately 13 percent of the plant still unreported, United Fund representatives are already hailing 1965's drive as a tremendous success. They did not view the \$89,000 as an unrealistic goal . . . compared to other plants and other locales.

Recommendations are being formulated to begin next year's drive earlier so that the Y-12 Plant can be 100 percent fair-share givers!

To every solicitor, and every one who gave, UF people are saying, "Well done."

A final report will be published next week in the Bulletin.



## ENGAGEMENTS



Glenna Delores Peters

### PETERS — GODDARD

Mr. and Mrs. Samuel Arthur Peters, 1902 Merchants Road, Knoxville, announce the engagement of their daughter, Miss Glenna Delores Peters to Mr. Arthur Goddard. The father of the bride-to-be is in Y-12's Assembly Operations.

Mr. Goddard is the son of Mr. and Mrs. Winfred Weston Goddard, 1600 Paris Drive, Knoxville. Miss Peters is a graduate of the University of Tennessee and is employed as a teacher at Norwood Elementary School.

Mr. Goddard is employed by General Acceptance Corporation, Knoxville.

The wedding is planned for 7:30 p.m., Tuesday, December 28, at the Dante Methodist Church.

## Lazar Will Hold Thermonuclear Seminar

Norman Lazar, Thermonuclear Division, will speak this week at the Physics Division Seminar. He will speak on "Progress in DXC-2 Experiments and the ORNL Controlled Fusion Program."

The seminar is set for Friday, 3:15 p.m., November 5, at the East Auditorium in ORNL's 4500 building.



**LABORATORY DEVELOPMENT RECENTLY** saw three men gain a patent application on their trace scanning development. L. E. Burkhart, department superintendent, does the honors, from left, as W. W. Lee, Wayne Groppe and J. L. Arrowood receive their official commendations. The development is seen at the right.



An even dozen Y-12ers celebrate important milestones this week with Union Carbide Corporation. Congratulations.

### 20 YEARS

**John W. Cantrell**, General Can Fabrication Shop, November 5.

**Andy P. Phillips**, General Expediting and Auxiliary Services, November 5.

**Percy C. LaRue**, Graphite Shop, November 7.

### 15 YEARS

**Tripp S. Swindle**, M - Wing Shop, November 3.

**J. P. Ross Jr.**, Research Services, November 6.

**Newton E. Hamby**, Dimensional Inspection, November 6.

**Elmer L. Soard**, Process Maintenance, November 7.

**Joseph L. Powell**, Research Services, November 7.

**Bertha M. G. Hall**, Janitors Department, November 8.

**Robert McKinney**, H-1 Foundry, November 8.

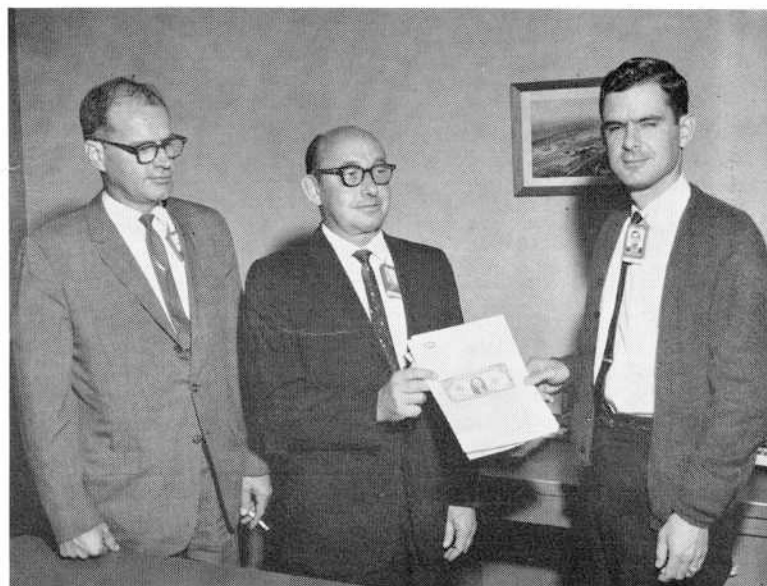
### 10 YEARS

**Lucille W. Pruitt**, General Shop Job Liaison, November 7.

**Joe C. Feeman**, Tool Engineering, November 7.



**W. D. PHILLIPPI**, center, Mechanical Engineering Department, displays his patent application acknowledgement for the design and development of an automatic machine which is used in production. Offering congratulations are J. C. Little and W. E. Heckert.



**RICHARD R. BALDWIN**, right, accepts a patent application for his development, "Y-12 Object Measuring By Interferometry." Baldwin is in Y-12's Dimensional Inspection Department. Division Head George A. Strasser, center, makes the presentation as George Evans looks on from the left.

## Union Carbide Sales, Earnings

Continued from Page 1  
**Overseas Expansion Seen  
In Seven Other Countries**

Major overseas building projects that have just been completed, are under way, or for which expenditures are expected to be made this year, include: polyethylene expansions at seven locations—Belgium, Australia, India, Italy, Japan, Scotland, and Sweden; a nonwoven fabrics plant in Italy; a plant for making Molecular Sieve adsorbents in France; a Flame-Plating plant in England; facilities for producing cryogenic (low-temperature) equipment in England and Germany; chemical storage facilities in Hong Kong; and new battery facilities in Costa Rica, Mexico and New Zealand.

### ON CONSCIENCE

Conscience is that small voice that quells a wicked thought, then adds: "Besides, you might get caught."

### DEFINITION

A fountain pen is a writing instrument that works beautifully in the store . . . but quits when you get it home.

## Instrument Society Meeting Is Tonight

The Oak Ridge Section of the Instrument Society of America is meeting tonight, Wednesday, November 3. The meeting will begin at 8 p.m. in the Green Room of the Ridge Recreational Hall.

New equipment and techniques will be demonstrated by the Ridge Instrument Company, the Foxboro Company, and Taylor Instrument Company. All members and interested guests are invited to attend tonight's meeting.